

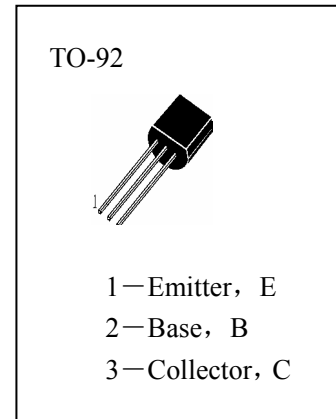


APPLICATIONS

Audio Frequency Amplifier.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

- T_{stg}—Storage Temperature..... -55~150°C
- T_j—Junction Temperature.....150°C
- P_C—Collector Dissipation.....625W
- V_{CB0}—Collector-Base Voltage.....-40V
- V_{CEO}—Collector-Emitter Voltage.....-20V
- V_{EBO}—Emitter-Base Voltage.....-5V
- I_C—Collector Current.....-500mA



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
ICBO	Collector Cut-off Current			-0.1	μ A	V _{CB} =-25V, I _E =0
IEBO	Emitter Cut-off Current			-0.1	μ A	V _{EB} =-3V, I _C =0
HFE (1)	DC Current Gain	85		500		V _{CE} =-1V, I _C =-50mA
HFE (2)		40				V _{CE} =-1V, I _C =-500mA
V _{CE(sat)}	Collector- Emitter Saturation Voltage			-0.6	V	I _C =-500mA, I _B =-50mA
V _{BE(sat)}	Base- Emitter Saturation Voltage			-1.2	V	I _C =-500mA, I _B =-50mA
V _{BE(on)}	Base-Emitter On Voltage	-0.6		-0.73	V	V _{CE} =-1V, I _C =-10mA
BV _{CB0}	Collector-Base Breakdown Voltage	-40			V	I _C =-100 μ A, I _E =0
BV _{CEO}	Collector-Emitter Breakdown Voltage	-20			V	I _C =-2mA, I _B =0
BV _{EBO}	Emitter- Base Breakdown Voltage	-5			V	I _E =100 μ A, I _C =0

hFE Classification

B	C	D	E
85—160	120—200	160—300	270—500

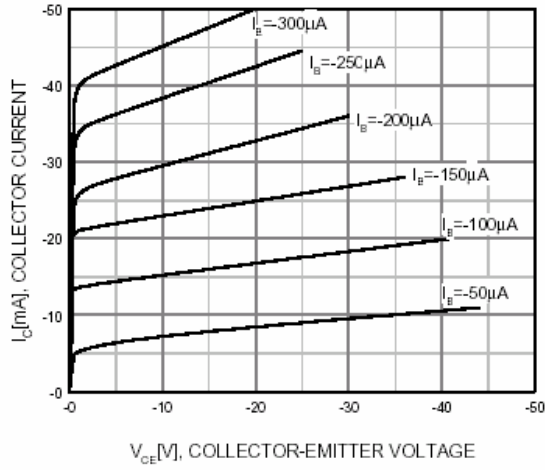


Figure 1. Static Characteristic

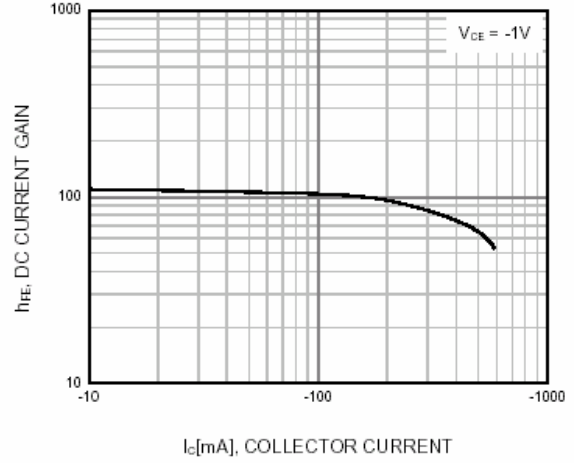


Figure 2. DC current Gain

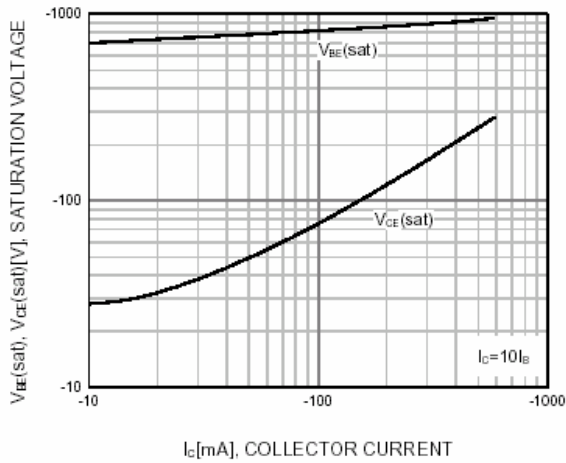


Figure 3. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

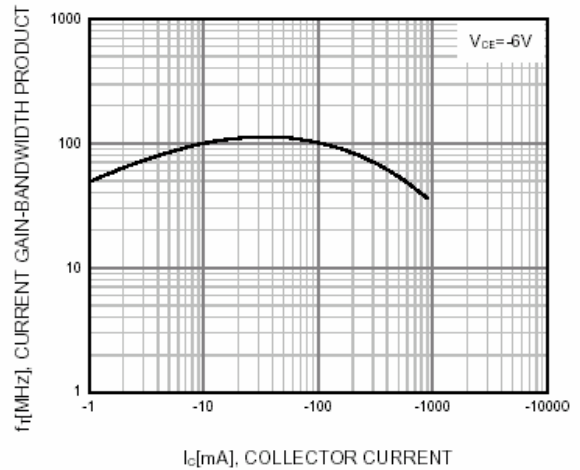


Figure 4. Current Gain Bandwidth Product